

**Notice of Allowability**

Application No.

09/584,604

Examiner

Javid A. Amini

Applicant(s)

ROSENBERG, SCOTT A.

Art Unit

2628

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/31/2006.
2. ☒ The allowed claim(s) is/are 26-54 whichh they have been renumbered to 1-29.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                       |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|   | 9. <input type="checkbox"/> Other _____.  |

*An examiner's amendment*

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark J. Rozman on 5/4/2006.

The application has been amended as follows:

Claim 26.

A method comprising: transferring pixel data to a transformation engine at a given memory address range; performing a transformation on the pixel data; and readdressing the transformed pixel data to another memory address range of a second transformation engine using the transformation engine and without using a fetch engine.

Claim 38.

An article comprising a medium storing instructions that enable a processor-based system to: transfer pixel data to a transformation engine at a given memory address range; perform a transformation on the pixel data; and readdress the transformed pixel data to another memory address range of a second transformation engine using the transformation engine and without using a fetch engine.

***Allowable Subject Matter***

Claims 26-54 allowed.

The following is an examiner's statement of reasons for allowance: in regard to independent claims 26, 38, 50 with respect to fig. 2 of the specification, a serial architecture for pixel data transformations implemented. The data fetched from memory 102 into a scaling engine 100 as indicated by the arrow. When the scaling is complete, the addresses for the data may be transformed to write the data to a color conversion engine 106 as indicated by the arrow. After color conversion, the data addresses may be transformed so that the data is written directly into a composition engine 104. Therefore, there is no fetch engine used to transferring pixel data between the scaling, color conversion and the composition. As Applicant refers to page 5, line 1-4 the scaling, color conversion and composition are considered as passive engines. The terms "first transfer function", "second transfer function" and "transfer functions" which are used in following claims 36, 37, 48-51 and 53-54 mean to perform a pixel and address transformation, and forward output pixel data and addresses to a media port write back engine. The media port write back engine is a write-only memory controller client that receives pixel and address information from the individual transfer functions.

Note: on pages 3-4, lines 25 and 1 respectively, the specification defines the fetch engine as to fetch the data from memory, and then fetch the data back from memory normally to the same memory location.

*Claims numbering:*

Old number	New number	Claim's type
1-25	Cancelled	Cancelled
<b>26</b>	<b>1</b>	<b>Independent</b>
27	2	Dependent
28	3	Dependent
29	4	Dependent
30	5	Dependent
31	6	Dependent
32	7	Dependent
33	8	Dependent
34	9	Dependent
35	10	Dependent
36	11	Dependent
37	12	Dependent
<b>38</b>	<b>13</b>	<b>Independent</b>
39	14	Dependent
40	15	Dependent
41	16	Dependent
42	17	Dependent
43	18	Dependent

44	19	Dependent
45	20	Dependent
46	21	Dependent
47	22	Dependent
48	23	Dependent
49	24	Dependent
<b>50</b>	<b>25</b>	<b>Independent</b>
51	26	Dependent
52	27	Dependent
53	28	Dependent
54	29	Dependent

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

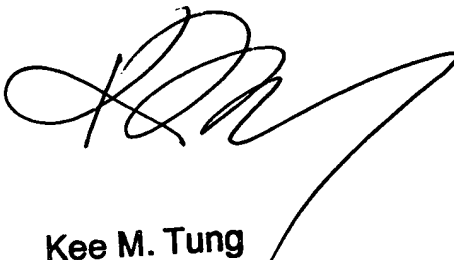
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A. Amini whose telephone number is 571-272-7654. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Javid A Amini  
Examiner  
Art Unit 2628

Javid Amini



Kee M. Tung  
Primary Examiner